Contents
Volume 64
Nos. 1-6
1994

Volume 64 No. 1

Editorial

3 **Expanding to meet your needs**
by David L. Turpin, DDS, MDS

4 **Letters**

5 **What's New in Dentistry**
Edited by Vincent Kokich, DDS, MSD

Case Report

7 **Long-term followup of orthodontic treatment of a patient with maxillary protrusion, severe deep overbite and thumb-sucking**
Shigemi Goto, DDS, Phd; Robert L. Boyd, DDS, MEd; Ib Leth Nielsen, DDS; and Tetsuo Iizuka, DDS, PhD

Original Articles

13 **Skeletodental changes in the adolescent accruing from use of the lip bumper**
Scott P. Werner, DDS, MS; Prasana Kumar Shivapuja, BDS, MDS, DDS, FAE; and Edward F. Harris, PhD

Commentary by M.M. Kuftinec

23 **Interobserver and intraobserver agreement of clinical orthodontic judgments based on intraoral and extraoral photographs**
Isabelle Lauweryns, LDS; Nathalie Van Cauwenberghe, LDS; and Carine Carels, DDS, PhD

31 **Soft tissue facial profile changes after orthodontic treatment with four premolars extracted**
Luis Alberto Bravo, MD, DDS, MS, PhD

43 **The dentofacial morphology of bruxers versus non-bruxers**
Susan E. Menapace, DMD, MDS; Donald J. Rinchuse, DMD, MS, MDS, PhD; Thomas Zullo, PhD; Calvin J. Pierce, DMD, PhD; and Hovhanness Shnorhokian, DMD, MDS, PhD

53 **The effect of incisal bite force on condylar seating**
David P. Wood, DDS, MClD; Kent J. Floreani, BSc, DDS, MClD; Khadry A. Galil, BDSc, D Oral Surgery, PhD; Walter R. Teteruck, BSc, DDS, MSD

Appendix: The Roth Power Centric Relation Registration

63 **Upright and supine cephalometric evaluation of obstructive sleep apnea syndrome and snoring subjects**
Nonglak Pracharktam, DDS; Mark G. Hans, DDS, MSD; Kingman P. Strohl, MD; and Susan Redline, MD, MPH

Special Article

75 **George Catlin's concepts on mouth-breathing, as presented by Dr. Edward H. Angle**
James L. Goldsmith, DDS; and Sylvan E. Stool, MD

79 **Angle News**

80 **Information for Authors**

Volume 64 No. 2

Editorial

83 **Clinical questions**
David L. Turpin, DDS MSD

84 **Letters**

Review Article

89 **Dental and facial asymmetries: a review**
Samir E. Bishara, DDS, BDS, DOrtho, MS; Paul S. Burkey, DDS, MS; John G. Kharouf, DDS, MS

Case Report

99 **Correction of mandibular asymmetric prognathism**
Daniel M. Yaillen, DMD, MSD

105 **Developmental characterization of skeletal Class III malocclusion**
Sadao Sato, DDS, DDSc

Commentary by Robert M. Rubin, DMD, MS

113 **Quantitative evaluation of craniofacial changes with Jasper Jumper therapy**
Jason B. Cope; Peter H. Buschang, PhD; Donald D. Cope, DDS, MSD; John Parker, DDS; H.O. Blackwood, III, DDS

123 **Craniofacial characteristics in children with Angle Class II div. 2 malocclusion combined with extreme deep bite**
Alf Tor Karlsen, DDS

131 **Experimental traumatic debonding of orthodontic brackets**
Michael J. Yapel, DDS, MS and Donald C. Quick, PhD

137 **Craniofacial pattern of parents of children having cleft lip and / or cleft palate anomaly**
Rupa Raghavan, BDS, MDS; S.S. Sidhu, BDS, MDS, DFR, FICD, FAMS; O.P. Kharbanda, BDS, MDS

145 **Face mask therapy of preadolescents with unilateral cleft lip and palate patients**
P. H. Buschang; C. Porter; E. Genecov; D. Genecov; K. E. Sayler

151 **Premature or delayed exfoliation of deciduous teeth and root resorption and formation**
Nikos B. Haralabakis, DDS, MS; Spiros Ch. Yiagtzis, DDS; Nikos M. Toutountzakis* DDS, Dr Dent

Contents
Volume 64
Nos. 1-6
1994

Volume 64 No. 1

Editorial

3 **Expanding to meet your needs**
by David L. Turpin, DDS, MDS

4 **Letters**

5 **What's New in Dentistry**
Edited by Vincent Kokich, DDS, MSD

Case Report

7 **Long-term followup of orthodontic treatment of a patient with maxillary protrusion, severe deep overbite and thumb-sucking**
Shigemi Goto, DDS, Phd; Robert L. Boyd, DDS, MEd; Ib Leth Nielsen, DDS; and Tetsuo Iizuka, DDS, PhD

Original Articles

13 **Skeletodental changes in the adolescent accruing from use of the lip bumper**
Scott P. Werner, DDS, MS; Prasana Kumar Shivapuja, BDS, MDS, DDS, FAE; and Edward F. Harris, PhD

Commentary by M.M. Kuftinec

23 **Interobserver and intraobserver agreement of clinical orthodontic judgments based on intraoral and extraoral photographs**
Isabelle Lauweryns, LDS; Nathalie Van Cauwenberghe, LDS; and Carine Carels, DDS, PhD

31 **Soft tissue facial profile changes after orthodontic treatment with four premolars extracted**
Luis Alberto Bravo, MD, DDS, MS, PhD

43 **The dentofacial morphology of bruxers versus non-bruxers**
Susan E. Menapace, DMD, MDS; Donald J. Rinchuse, DMD, MS, MDS, PhD; Thomas Zullo, PhD; Calvin J. Pierce, DMD, PhD; and Hovhanness Shnorhokian, DMD, MDS, PhD

53 **The effect of incisal bite force on condylar seating**
David P. Wood, DDS, MClD; Kent J. Floreani, BSc, DDS, MClD; Khadry A. Galil, BDSc, D Oral Surgery, PhD; Walter R. Teteruck, BSc, DDS, MSD

Appendix: The Roth Power Centric Relation Registration

63 **Upright and supine cephalometric evaluation of obstructive sleep apnea syndrome and snoring subjects**
Nonglak Pracharktam, DDS; Mark G. Hans, DDS, MSD; Kingman P. Strohl, MD; and Susan Redline, MD, MPH

Special Article

75 **George Catlin's concepts on mouth-breathing, as presented by Dr. Edward H. Angle**
James L. Goldsmith, DDS; and Sylvan E. Stool, MD

79 **Angle News**

80 **Information for Authors**

Volume 64 No. 2

Editorial

83 **Clinical questions**
David L. Turpin, DDS MSD

84 **Letters**

Review Article

89 **Dental and facial asymmetries: a review**
Samir E. Bishara, DDS, BDS, DOrtho, MS; Paul S. Burkey, DDS, MS; John G. Kharouf, DDS, MS

Case Report

99 **Correction of mandibular asymmetric prognathism**
Daniel M. Yaillen, DMD, MSD

105 **Developmental characterization of skeletal Class III malocclusion**
Sadao Sato, DDS, DDSc

Commentary by Robert M. Rubin, DMD, MS

113 **Quantitative evaluation of craniofacial changes with Jasper Jumper therapy**
Jason B. Cope; Peter H. Buschang, PhD; Donald D. Cope, DDS, MSD; John Parker, DDS; H.O. Blackwood, III, DDS

123 **Craniofacial characteristics in children with Angle Class II div. 2 malocclusion combined with extreme deep bite**
Alf Tor Karlsen, DDS

131 **Experimental traumatic debonding of orthodontic brackets**
Michael J. Yapel, DDS, MS and Donald C. Quick, PhD

137 **Craniofacial pattern of parents of children having cleft lip and / or cleft palate anomaly**
Rupa Raghavan, BDS, MDS; S.S. Sidhu, BDS, MDS, DFR, FICD, FAMS; O.P. Kharbanda, BDS, MDS

145 **Face mask therapy of preadolescents with unilateral cleft lip and palate patients**
P. H. Buschang; C. Porter; E. Genecov; D. Genecov; K. E. Sayler

151 **Premature or delayed exfoliation of deciduous teeth and root resorption and formation**
Nikos B. Haralabakis, DDS, MS; Spiros Ch. Yiagtzis, DDS; Nikos M. Toutountzakis* DDS, Dr Dent

Volume 64 No. 3

Editorial

163 **Periodontal screening: A basic part of the orthodontic exam**
David L. Turpin, DDS, MSD

165 **What's new in dentistry**
Edited by Vincent Kokich, DDS, MSD

Case Report

167 **Case RW: Correction of a mandibular transverse discrepancy resulting from anteroposterior skeletal disharmony**
Gary Wolf, DDS, MSD

Original Articles

175 **Wolff's Law and bone's structural adaptations to mechanical usage: an overview for clinicians**
Harold M. Frost, MD

189 **Repelling magnets versus superelastic nickel-titanium coils in simultaneous distal movement of maxillary first and second molars**
Lars Bondemark, DDS; Jüri Kurol, DDS, PhD; Mats Bernhold, DDS

199 **Characteristics of a fluoride-releasing elastomeric chain**
David J. Storie, DMD, MSc; Fredrick Regennitter, DDS; Joseph A. von Fraunhofer, MSc, PhD, FRSC

Commentary by Robert Boyd, DDS, MEd and Sunil Kapila, DDS, MS

211 **Reproducibility of the centric relation bite registration technique**
David P. Wood, DDS, MCID; Robert W. Elliott, DDS, MCID

221 **Effects of orthodontic treatment on the growth of individuals with Class II division 1 malocclusion**
Samir E. Bishara, BDS, DDS, DOrtho, MS; Abbas R. Zaher, BDS, MS, PhD; David M. Cummins, DDS, MS and Jane R. Jakobsen, BS, MS

Opinion

231 **A case for specialty practice: Does practice make perfect . . . or permanent?**
Bruce W. Hultgren, DDS, MS; Robert J. Isaacson, DDS, MSD, PhD; and Peter A. Frensch, MS, PhD

238 **Acknowledgments**

240 **Information for Authors**

Volume 64 No. 4

Editorial

243 **New findings expose the palatally displaced canine**
David L. Turpin, DDS, MSD

244 **Letters**

247 **What's new in dentistry**
Vincent Kokich, DDS, MSD

Original Articles

249 **The palatally displaced canine as a dental anomaly of genetic origin**
Sheldon Peck, DDS, MScD; Leena Peck, DMD, MSD; and Matti Kataja, PhD

257 **Pulpal and periodontal reactions to orthodontic alignment of palatally impacted canines**
Heather Woloshyn, DMD, MSD; Jon Årtun, DDS, Dr. Odont; David B. Kennedy, BDS, MSD; and Donald R. Joondeph, DDS, MS

265 **Cephalometric evaluation of two treatment strategies for deep overbite correction**
Mark G. Hans, DDS, MSD; Craig Kishiyama, DDS, MSD; Stephan H. Parker, DDS, MSD; Gary R. Wolf, DDS, MSD; Regine Noachtar, DDS

Commentary by Robert J. Isaacson, DDS, MSD, PhD

277 **Debonding forces applied to ceramic brackets simulating clinical conditions**
Samir E. Bishara, BDS, DDS, DOrtho, MS; Juanita M. Fonseca, DDS, MS; Dale E. Fehr, DDS, MS; and Daniel B. Boyer, DDS, PhD

283 **Deformation of metal brackets: a comparative study**
Daniel A. Flores, DDS; Luke K. Choi, DDS; Joseph M. Caruso, DDS; Jack L. Tomlinson, DDS; Garland E. Scott, DDS; and M. Toufic Jeiroudi, DDS

291 **On the selection and preparation of a wire for the labial bow of an ortho-dontic retainer**
Jeffrey M. Stein, DDS, MS; and Robert J. Nikolai, PhD

299 **Skeletal jaw relationships: a quantitative assessment using elliptical Fourier functions**
Benjamin Franklin Lowe, Jr., DDS, MS; Ceib Phillips, PhD, MPH;
Pete E. Lestrel, PhD; and Henry W. Fields, Jr., DDS, MS

Commentary by Martin Fine, BDS, MSc

Case Report

311 Case Report: Nonsurgical treatment of an adult with severe anterior open bite
Shigemi Goto, DDS, PhD; Robert L. Boyd, DDS, MEd; Ib Leth Nielsen, DDS; Tetsuo Iizuka, DDS, PhD

320 **Information for authors**

Contents

Volume 64
Nos. 1-6
1994

Volume 64 No. 5

Editorial

323 **Closing the loop with electronic publishing**
David L. Turpin, DDS, MSD

325 **What's new in dentistry**

Case Report

327 **Case WI: Treatment of arch length deficiency in an adult male: the extraction of compromised molars rather than healthy premolars**
Jon Årtun, DDS, Dr Odont; A. Davide Mirabella, DDS, MSD

Original Articles

333 **The CR-CO discrepancy and its effect on cephalometric measurements**
Madelaine Shildkraut, DDS, MCID; David P. Wood, DDS, MCID; W. Stuart Hunter, DDS, MS, PhD

Finite element-based cephalometric analysis
Glenn T. Sameshima, DDS, PhD; Michael Melnick, DDS, PhD

Comparisons of the dental arch changes in patients with Class II, division 1 malocclusions: extraction vs nonextraction treatments
Samir E. Bishara, BDS, DDS, D Ortho, MS; Peyman Bayati; Abbas R. Zaher, BDS, MS, PhD; Jane R. Jakobsen, BS, MA

359 **A cephalometric evaluation of nonextraction cervical headgear treatment in Class II malocclusions**
Gregory W. Hubbard, BS, DDS, MS; Ram S. Nanda, DDS, MS, PhD; G. Fräns Currier, DDS, MSD, MEd

371 **Shape of the craniofacial complex in patients with Klinefelter syndrome**
Hrvoje Brkic, DDS, MSD, PhD; Zvonimir Kaic, DDS, PhD; Zvonimir Poje, DDS, PhD; Zvonimir Singer, MD, PhD, FIAC

377 **Effect of H_3PO_4 concentration on bond strength**
Wei Nan. Wang, DDS; Ching Lin. Yeh, DDS, MSc; Ber Duen. Fang, DDS; Kuo Ting. Sun, DDS; Michael G. Arvystas, DMD

383 **Sealant and resin viscosity and their influence on the formation of resin tags**
Leonardo Foresti Soares de Menezes, DDS, MS; Orlando Chevitarese, DDS, PhD

389 **Thyroid function and root resorption**
Efstratios Poumpros, DDS, MS; Eric Loberg, DMD; Christer Engström, DDS, Odont Dr
Commentary by Brian Povolny, DDS, MSD, PhD

Case Report

395 **Thyroid administration to reduce root resorption**
Eric L. Loberg, DMD; Christer Engström, DDS, Odont Dr
Commentary by Richard L. Christiansen, DDS, MSD, PhD

Volume 64 No. 6

Editorial

403 **Percentage swings in extraction frequencies**
David L. Turpin, DDS, MSD

404 **Letters**

405 **What's new in dentistry**

Opinion

407 **Forty-year review of extraction frequencies at a university orthodontic clinic**
William R. Proffit, DDS, PhD

Clinical Review

415 **Crowding: timing of treatment**
Anthony A. Gianelly, DMD, PhD, MD

Original Articles

419 **A longitudinal evaluation of open mouth posture and maxillary arch width in children**
Alan M. Gross, PhD; Gloria D. Kellum, PhD; Diane Franz, BA; Kathy Michas, BS; Michael Walker, BA; Monica Foster, MA; and F. Watt Bishop, DDS, MS

425 **Posttreatment changes in different facial types**
Abbas R. Zaher, BChD, MS, PhD; Samir E. Bishara, BDS, D Ortho, DDS, MS; and Jane R. Jakobsen, BA, MS

437 **Craniofacial morphology in children with Angle Class II-1 malocclusion with and without deep bite**
Alf Tor Karlsen, DDS

447 **Landmark identification error in posterior anterior cephalometrics**
Paul W. Major, DDS, MSc., MRCD(C); Donald E. Johnson, DDS, MSc; Karen L. Hesse BSc., DDS; Kenneth E. Glover DDS, MSc., MRCD(c)

455 **Force application and decay characteristics of untreated and treated polyurethane elastomeric chains**
Jennifer S. Stevenson, BS and Robert P. Kusy, PhD

Commentary by Sunil Kapila

468 **Index to year**